

May 20, 2005

TO THE INTERNATIONAL BUREAU OF THE WORLD
INTELLECTUAL PROPERTY ORGANIZATION
34, Chemin des Colombettes
1211 Geneva 20, Switzerland

ART. 19(1) AMENDMENT

International Application No. PCT/JP2004/019707

(Our Ref.: P948-PCT)

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The applicant requests amendment of the claim of the present international application, based on Article 19(1), of the PCT, and transmits herewith a newly amended claim. We believe the amendment does not go beyond the disclosure in the original international application. An outline of the amendment is as follows.

(a) Original claims 1 to 10 replace New claims 1 to 5 as filed.

(b) Original claims 1, 2, 4, 6 and 10 are deleted.

CLAIMS

1. (Amended) An ultrasonic flowmeter comprising two ultrasonic transceivers mounted in spaced relation to each other in an axial direction on the outer peripheral surface of a pipe through which a fluid flows, said
5 ultrasonic flowmeter determining a flow velocity of said fluid by receiving an ultrasonic vibration transmitted from one of said two ultrasonic transceivers through the fluid in said pipe with the other ultrasonic transceiver, alternately switching between the ultrasonic transceiver
10 at the transmitting end and the ultrasonic transceiver at the receiving end, and measuring the ultrasonic wave propagation time between the two ultrasonic transceivers, wherein each of the ultrasonic
15 transceivers comprises a cylindrical transmitting body fixed to the outer peripheral surface of said pipe so as to surround said pipe and an ultrasonic transducer spaced apart from the outer peripheral surface of said pipe, said transmitting body having a substantially conical
20 shape having an outer diameter progressively decreasing from one axial end surface with said ultrasonic transducer fixedly secured thereto toward the other axial end surface, said transmitting body having axial end surfaces perpendicular to the axis of said pipe, said
25 ultrasonic transducer having axial end surfaces each fixed to said axial end surfaces of said transmitting body, said ultrasonic transducer adapted to be expanded and contracted in axial direction by applying a voltage between said axial end surfaces of said ultrasonic
30 transducer.

2. (Amended) The ultrasonic flowmeter according to claim 1, wherein said transmitting body is made of a metal material.

3. (Amended) The ultrasonic flowmeter according to
35 claim 1, wherein said ultrasonic transducer and said transmitting body are divided into a plurality of parts in the peripheral direction along the outer peripheral

surface of said pipe.

4. (Amended) The ultrasonic flowmeter according to claim 1, wherein said transmitting body is integrated with said pipe.

5 5. (Amended) The ultrasonic flowmeter according to claim 1, wherein said pipe is made of resin.